LEHIGH RIVER BASIN

01452500 MONOCACY CREEK AT BETHLEHEM, PA

LOCATION.--Lat 40°38'28", long 75°22'47", Northampton County, Hydrologic Unit 02040106, on right bank 40 ft downstream from highway bridge at entrance to Monocacy Park at Bethlehem, and 2.1 mi upstream from mouth.

DRAINAGE AREA.--44.5 mi².

PERIOD OF RECORD.--October 1948 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Concrete control since July 17, 1969. Datum of gage is 247.24 ft above sea level (levels by U.S. Army Corps of Engineers). Prior to May 15, 1962, nonrecording gage at site 40 ft upstream at same datum.

REMARKS.—No estimated daily discharges. Records fair. Some regulation at low flow since April 1954 by mill upstream. Several measurements of water temperature were made during the year. Satellite telemetry at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 10, 1945, reached a stage of 9.74 ft, from floodmarks, discharge, about 5,200 ft³/s, by slope-area measurement.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 300 ft³/s and maximum (*):

| DISCHARGE CUBIC PEET PER SECOND. WATEEN YEARS OCTOBER 1999 TO SEPTEMBER 2000 Cotto Nov | Date Aug. 2 | Tin 2 083 | ne | scharge ft ³ /s * 392 | Gage Height (ft) *3.67 | | | Date Aug. 3 | Time 0415 | Di | ischarge ft ³ /s 372 | Gage Height (ft) 3.62 | |
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| 1 33 23 25 28 20 79 62 55 61 55 134 56 2 31 47 25 27 19 68 59 56 57 52 236 62 3 30 48 25 25 19 59 50 55 52 33 48 225 48 4 33 32 26 26 19 51 65 49 49 49 48 176 46 5 47 28 25 28 19 46 58 47 47 44 130 40 6 36 27 30 29 19 41 55 45 78 44 108 41 7 34 26 28 28 19 38 51 43 59 44 9 49 49 48 176 8 33 25 26 27 18 37 49 42 52 42 84 39 9 32 25 26 27 18 37 49 42 52 42 84 39 9 32 25 26 27 18 37 59 44 9 76 38 10 46 25 27 32 19 31 51 40 45 39 69 36 11 38 24 27 32 19 31 51 40 45 39 69 36 11 38 24 27 34 20 46 50 44 51 39 69 36 11 38 24 27 34 20 46 50 44 51 39 99 40 61 34 11 38 24 27 34 20 46 50 44 51 39 99 40 61 34 11 38 24 27 34 20 46 50 44 51 39 99 40 61 34 11 38 24 27 34 20 46 50 44 51 39 99 40 61 34 11 38 22 24 43 26 38 20 76 47 50 78 38 51 14 34 25 40 64 38 55 16 32 22 43 26 41 60 45 51 39 99 40 61 34 15 37 49 42 52 40 54 36 69 45 70 60 39 56 37 16 32 22 44 23 44 27 42 57 42 58 55 16 32 22 43 44 23 44 27 64 44 24 25 74 45 58 55 16 32 22 44 23 44 23 44 21 60 45 51 39 59 40 61 34 15 33 25 54 9 26 36 69 45 70 60 39 56 37 16 32 22 44 23 44 23 44 21 60 45 51 39 59 40 61 34 17 32 22 24 30 62 38 30 69 45 70 60 39 56 37 16 32 22 44 23 44 23 44 210 60 45 41 55 40 53 39 51 33 19 30 32 22 44 23 44 23 44 210 60 45 41 55 40 53 39 51 32 19 30 32 22 44 23 44 23 44 210 60 45 41 55 40 53 39 51 32 19 30 32 22 44 23 44 23 44 210 60 45 41 55 40 53 39 51 32 19 30 32 22 44 23 44 23 44 210 60 45 41 55 40 53 39 51 32 19 30 32 22 44 23 44 23 44 210 60 45 41 55 40 53 39 51 32 19 30 30 22 39 24 40 24 32 84 111 101 60 35 42 38 49 32 20 34 22 38 26 55 57 72 84 111 101 60 35 42 33 49 33 19 30 10 8 120 107 87 36 43 49 33 19 30 10 8 120 107 87 36 43 39 39 51 32 25 26 26 24 35 25 53 72 84 111 101 60 35 42 30 44 33 31 32 40 50 50 50 50 50 50 50 50 50 50 50 50 50 | | | | | | | | | | | | | |
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| 27 27 51 33 21 70 61 71 107 66 67 39 39 39 28 27 29 31 20 109 100 67 92 68 42 41 35 33 30 26 26 26 29 20 70 59 72 60 34 41 30 31 24 29 20 66 66 49 39 TOTAL 983 805 1038 786 1051 2066 1889 2352 1777 1290 2350 1179 MEAN 31.7 26.8 33.5 25.4 36.2 66.6 63.0 75.9 59.2 41.6 75.8 39.3 MAX 47 51 54 34 109 108 120 173 89 67 236 62 MIN 24 22 25 20 18 31 42 39 45 34 39 30 CFSM .71 60 .75 .57 .81 1.50 1.41 1.70 1.33 .94 1.70 .88 IN82 .67 .87 .66 .88 1.73 1.58 1.97 1.49 1.08 1.96 .99 STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 2000, BY WATER YEAR (WY) MEAN 39.0 45.6 55.1 58.9 65.0 75.1 74.7 59.1 50.8 44.2 40.4 39.1 MAX 101 110 191 201 163 216 181 129 142 141 88.2 106 (WY) 1997 1973 1997 1979 1979 1994 1994 1984 1972 1984 1984 1989 MIN 8.90 10.0 6.88 7.14 21.0 21.3 18.6 16.2 15.0 11.6 10.6 9.51 | 25 | 20 | 24 | 35 | 25 | 53 | 12 | 84 | 149 | 21 | 34 | 43 | 31 |
| 28 27 29 31 20 109 100 67 92 68 42 41 35 29 27 27 30 20 92 75 64 80 63 36 48 33 30 26 26 29 20 70 59 72 60 34 41 30 31 24 29 20 66 66 49 39 TOTAL 983 805 1038 786 1051 2066 1889 2352 1777 1290 2350 1179 MEAN 31.7 26.8 33.5 25.4 36.2 66.6 63.0 75.9 59.2 41.6 75.8 39.3 MAX 47 51 54 34 109 108 120 173 89 67 236 62 MIN 24 22 25 20 18 31 42 39 45 34 IN. 82 .67 87 .87 .66 .88 1.73 1.58 1.97 1.49 1.08 1.96 .99 STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 2000, BY WATER YEAR (WY) MEAN 39.0 45.6 55.1 58.9 65.0 75.1 74.7 59.1 50.8 44.2 40.4 39.1 MAX 101 110 191 201 163 216 181 129 142 141 88.2 106 (WY) 1997 1973 1997 1979 1979 1994 1994 1984 1972 1984 1984 1987 MIN 8.90 10.0 6.88 7.14 21.0 21.3 18.6 16.2 15.0 11.6 10.6 9.51 | 26 | 26 | 24 | 34 | 22 | 74 | 66 | 76 | 126 | 61 | 39 | 40 | 44 |
| 29 27 27 30 20 92 75 64 80 63 36 48 33 30 26 26 29 20 70 59 72 60 34 41 30 31 24 29 20 66 66 49 39 TOTAL 983 805 1038 786 1051 2066 1889 2352 1777 1290 2350 1179 MEAN 31.7 26.8 33.5 25.4 36.2 66.6 63.0 75.9 59.2 41.6 75.8 39.3 MAX 47 51 54 34 109 108 120 173 89 67 236 62 MIN 24 22 25 20 18 31 42 39 45 34 39 30 CFSM .71 .60 .75 .57 .81 1.50 1.41 1.70 1.33 .94 1.70 .88 IN. 82 .67 .87 .66 .88 1.73 1.58 1.97 1.49 1.08 1.96 .99 STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 2000, BY WATER YEAR (WY) MEAN 39.0 45.6 55.1 58.9 65.0 75.1 74.7 59.1 50.8 44.2 40.4 39.1 MAX 101 110 191 201 163 216 181 129 142 141 88.2 106 (WY) 1997 1973 1997 1979 1979 1994 1994 1984 1972 1984 1984 1987 MIN 8.90 10.0 6.88 7.14 21.0 21.3 18.6 16.2 15.0 11.6 10.6 9.51 | 27 | 27 | 51 | 33 | 21 | 70 | 61 | 71 | 107 | 66 | 67 | 39 | 39 |
| 30 | 28 | 27 | 29 | 31 | 20 | 109 | 100 | 67 | 92 | 68 | 42 | 41 | 35 |
| 31 24 29 20 66 66 49 39 TOTAL 983 805 1038 786 1051 2066 1889 2352 1777 1290 2350 1179 MEAN 31.7 26.8 33.5 25.4 36.2 66.6 63.0 75.9 59.2 41.6 75.8 39.3 MAX 47 51 54 34 109 108 120 173 89 67 236 62 MIN 24 22 25 20 18 31 42 39 45 34 39 30 CFSM .71 .60 .75 .57 .81 1.50 1.41 1.70 1.33 .94 1.70 .88 IN82 .67 .87 .66 .88 1.73 1.58 1.97 1.49 1.08 1.96 .99 STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 2000, BY WATER YEAR (WY) MEAN 39.0 45.6 55.1 58.9 65.0 75.1 74.7 59.1 50.8 44.2 40.4 39.1 MAX 101 110 191 201 163 216 181 129 142 141 88.2 106 (WY) 1997 1973 1997 1979 1979 1994 1994 1984 1972 1984 1984 1987 MIN 8.90 10.0 6.88 7.14 21.0 21.3 18.6 16.2 15.0 11.6 10.6 9.51 | 29 | 27 | 27 | 30 | 20 | 92 | 75 | 64 | 80 | 63 | 36 | 48 | 33 |
| TOTAL 983 805 1038 786 1051 2066 1889 2352 1777 1290 2350 1179 MEAN 31.7 26.8 33.5 25.4 36.2 66.6 63.0 75.9 59.2 41.6 75.8 39.3 MAX 47 51 54 34 109 108 120 173 89 67 236 62 MIN 24 22 25 20 18 31 42 39 45 34 39 30 CFSM .71 .60 .75 .57 .81 1.50 1.41 1.70 1.33 .94 1.70 .88 IN82 .67 .87 .66 .88 1.73 1.58 1.97 1.49 1.08 1.96 .99 STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 2000, BY WATER YEAR (WY) MEAN 39.0 45.6 55.1 58.9 65.0 75.1 74.7 59.1 50.8 44.2 40.4 39.1 MAX 101 110 191 201 163 216 181 129 142 141 88.2 106 (WY) 1997 1973 1997 1979 1979 1994 1994 1984 1972 1984 1984 1987 MIN 8.90 10.0 6.88 7.14 21.0 21.3 18.6 16.2 15.0 11.6 10.6 9.51 | | | 26 | | | | | 59 | | 60 | | | 30 |
| MEAN 31.7 26.8 33.5 25.4 36.2 66.6 63.0 75.9 59.2 41.6 75.8 39.3 MAX 47 51 54 34 109 108 120 173 89 67 236 62 MIN 24 22 25 20 18 31 42 39 45 34 39 30 CFSM .71 .60 .75 .57 .81 1.50 1.41 1.70 1.33 .94 1.70 .88 IN82 .67 .87 .66 .88 1.73 1.58 1.97 1.49 1.08 1.96 .99 STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 2000, BY WATER YEAR (WY) MEAN 39.0 45.6 55.1 58.9 65.0 75.1 74.7 59.1 50.8 44.2 40.4 39.1 MAX 101 110 191 201 163 216 181 129 142 141 88.2 106 (WY) 1997 1973 1997 1979 1979 1994 1994 1984 1972 1984 1984 1987 MIN 8.90 10.0 6.88 7.14 21.0 21.3 18.6 16.2 15.0 11.6 10.6 9.51 | 31 | 24 | | 29 | 20 | | 66 | | 66 | | 49 | 39 | |
| MEAN 31.7 26.8 33.5 25.4 36.2 66.6 63.0 75.9 59.2 41.6 75.8 39.3 MAX 47 51 54 34 109 108 120 173 89 67 236 62 MIN 24 22 25 20 18 31 42 39 45 34 39 30 CFSM .71 .60 .75 .57 .81 1.50 1.41 1.70 1.33 .94 1.70 .88 IN82 .67 .87 .66 .88 1.73 1.58 1.97 1.49 1.08 1.96 .99 STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 2000, BY WATER YEAR (WY) MEAN 39.0 45.6 55.1 58.9 65.0 75.1 74.7 59.1 50.8 44.2 40.4 39.1 MAX 101 110 191 201 163 216 181 129 142 141 88.2 106 (WY) 1997 1973 1997 1979 1979 1994 1994 1984 1972 1984 1984 1987 MIN 8.90 10.0 6.88 7.14 21.0 21.3 18.6 16.2 15.0 11.6 10.6 9.51 | ПОПАТ | 002 | 005 | 1020 | 706 | 1051 | 2000 | 1000 | 0250 | 1777 | 1000 | 2250 | 1170 |
| MAX 47 51 54 34 109 108 120 173 89 67 236 62 MIN 24 22 25 20 18 31 42 39 45 34 39 30 CFSM .71 .60 .75 .57 .81 1.50 1.41 1.70 1.33 .94 1.70 .88 IN82 .67 .87 .66 .88 1.73 1.58 1.97 1.49 1.08 1.96 .99 STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 2000, BY WATER YEAR (WY) MEAN 39.0 45.6 55.1 58.9 65.0 75.1 74.7 59.1 50.8 44.2 40.4 39.1 MAX 101 110 191 201 163 216 181 129 142 141 88.2 106 (WY) 1997 1973 1997 1979 1979 1994 1994 1984 1972 1984 1984 1987 MIN 8.90 10.0 6.88 7.14 21.0 21.3 18.6 16.2 15.0 11.6 10.6 9.51 | | | | | | | | | | | | | |
| MIN 24 22 25 20 18 31 42 39 45 34 39 30 CFSM .71 .60 .75 .57 .81 1.50 1.41 1.70 1.33 .94 1.70 .88 IN82 .67 .87 .66 .88 1.73 1.58 1.97 1.49 1.08 1.96 .99 STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 2000, BY WATER YEAR (WY) MEAN 39.0 45.6 55.1 58.9 65.0 75.1 74.7 59.1 50.8 44.2 40.4 39.1 MAX 101 110 191 201 163 216 181 129 142 141 88.2 106 (WY) 1997 1973 1997 1979 1979 1979 1994 1994 1984 1972 1984 1984 1987 MIN 8.90 10.0 6.88 7.14 21.0 21.3 18.6 16.2 15.0 11.6 10.6 9.51 | | | | | | | | | | | | | |
| CFSM .71 .60 .75 .57 .81 1.50 1.41 1.70 1.33 .94 1.70 .88 IN82 .67 .87 .66 .88 1.73 1.58 1.97 1.49 1.08 1.96 .99 STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 2000, BY WATER YEAR (WY) MEAN 39.0 45.6 55.1 58.9 65.0 75.1 74.7 59.1 50.8 44.2 40.4 39.1 MAX 101 110 191 201 163 216 181 129 142 141 88.2 106 (WY) 1997 1973 1997 1979 1979 1979 1994 1994 1984 1972 1984 1984 1987 (WY) 1997 1973 1997 1979 1979 1979 1994 1994 1984 1972 1984 1984 1987 MIN 8.90 10.0 6.88 7.14 21.0 21.3 18.6 16.2 15.0 11.6 10.6 9.51 | | | | | | | | | | | | | |
| IN82 .67 .87 .66 .88 1.73 1.58 1.97 1.49 1.08 1.96 .99 STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 2000, BY WATER YEAR (WY) MEAN 39.0 45.6 55.1 58.9 65.0 75.1 74.7 59.1 50.8 44.2 40.4 39.1 MAX 101 110 191 201 163 216 181 129 142 141 88.2 106 (WY) 1997 1973 1997 1979 1979 1994 1994 1984 1972 1984 1984 1987 MIN 8.90 10.0 6.88 7.14 21.0 21.3 18.6 16.2 15.0 11.6 10.6 9.51 | | | | | | | | | | | | | |
| STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 2000, BY WATER YEAR (WY) MEAN 39.0 45.6 55.1 58.9 65.0 75.1 74.7 59.1 50.8 44.2 40.4 39.1 MAX 101 110 191 201 163 216 181 129 142 141 88.2 106 (WY) 1997 1973 1997 1979 1979 1994 1994 1984 1972 1984 1984 1987 MIN 8.90 10.0 6.88 7.14 21.0 21.3 18.6 16.2 15.0 11.6 10.6 9.51 | | | | | | | | | | | | | |
| MEAN 39.0 45.6 55.1 58.9 65.0 75.1 74.7 59.1 50.8 44.2 40.4 39.1 MAX 101 110 191 201 163 216 181 129 142 141 88.2 106 (WY) 1997 1973 1997 1979 1979 1994 1994 1984 1972 1984 1984 1987 MIN 8.90 10.0 6.88 7.14 21.0 21.3 18.6 16.2 15.0 11.6 10.6 9.51 | IIV. | .02 | .07 | .07 | .00 | .00 | 1.75 | 1.50 | 1.07 | 1.47 | 1.00 | 1.50 | . , , |
| MEAN 39.0 45.6 55.1 58.9 65.0 75.1 74.7 59.1 50.8 44.2 40.4 39.1 MAX 101 110 191 201 163 216 181 129 142 141 88.2 106 (WY) 1997 1973 1997 1979 1979 1994 1994 1984 1972 1984 1984 1987 MIN 8.90 10.0 6.88 7.14 21.0 21.3 18.6 16.2 15.0 11.6 10.6 9.51 | STATISTI | CS OF MC | NTHLY ME | EAN DATA | FOR WATER Y | EARS 1949 | 9 - 2000. | BY WATER Y | EAR (WY) | | | | |
| MAX 101 110 191 201 163 216 181 129 142 141 88.2 106 (WY) 1997 1973 1997 1979 1979 1994 1994 1984 1972 1984 1984 1987 MIN 8.90 10.0 6.88 7.14 21.0 21.3 18.6 16.2 15.0 11.6 10.6 9.51 | | | | | | | _ | | | | | | |
| (WY) 1997 1973 1997 1979 1994 1994 1984 1972 1984 1984 1987 MIN 8.90 10.0 6.88 7.14 21.0 21.3 18.6 16.2 15.0 11.6 10.6 9.51 | | | | | | | | | | | | | |
| MIN 8.90 10.0 6.88 7.14 21.0 21.3 18.6 16.2 15.0 11.6 10.6 9.51 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| (WY) 1966 1966 1966 1966 1992 1965 1966 1965 1965 1966 1965 1965 | | | | | | | | | | | | | |
| | (WY) | 1966 | 1966 | 1966 | 1966 | 1992 | 1965 | 1966 | 1965 | 1965 | 1966 | 1965 | 1965 |

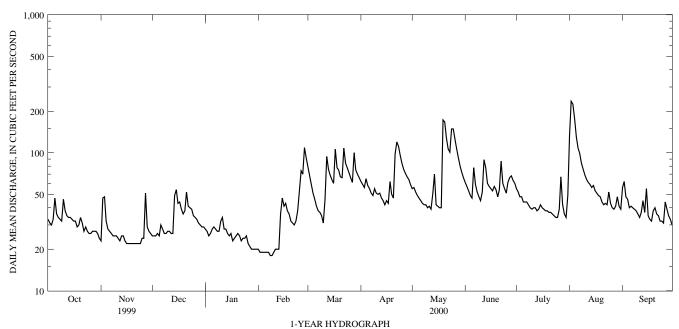
e Estimated.

LEHIGH RIVER BASIN

01452500 MONOCACY CREEK AT BETHLEHEM, PA--Continued

| SUMMARY STATISTICS | FOR 1999 CALENDAR YEAR | FOR 2000 WATER YEAR | WATER YEARS 1949 - 2000 |
|--------------------------|------------------------|---------------------|---------------------------|
| ANNUAL TOTAL | 13795 | 17566 | |
| ANNUAL MEAN | 37.8 | 48.0 | 53.8 |
| HIGHEST ANNUAL MEAN | | | 89.7 1984 |
| LOWEST ANNUAL MEAN | | | 15.5 1966 |
| HIGHEST DAILY MEAN | 511 Sep 16 | 236 Aug 2 | 1200 Jan 26 1978 |
| LOWEST DAILY MEAN | 14 Aug 11,12,25 | 18 Feb 8,9 | 5.2 Jan 1 1966 |
| ANNUAL SEVEN-DAY MINIMUM | 15 Jul 26 | 19 Feb 3 | 5.9 Dec 27 1965 |
| INSTANTANEOUS PEAK FLOW | | 392 Aug 2 | a 3490 Jan 25 1979 |
| INSTANTANEOUS PEAK STAGE | | 3.67 Aug 2 | 8.19 Jan 25 1979 |
| INSTANTANEOUS LOW FLOW | | 18 Feb 5-11 | 3.0 Jan 9 1966 |
| ANNUAL RUNOFF (CFSM) | .85 | 1.08 | 1.21 |
| ANNUAL RUNOFF (INCHES) | 11.53 | 14.68 | 16.44 |
| 10 PERCENT EXCEEDS | 54 | 78 | 98 |
| 50 PERCENT EXCEEDS | 29 | 40 | 42 |
| 90 PERCENT EXCEEDS | 16 | 24 | 21 |

a From rating curve extended above 440 ft³/s on basis of slope-area measurement at gage height 5.47 and at peak flow.



OCTOBER 1, 1999 TO SEPTEMBER 30, 2000